

STATEMENT OF QUALIFICATIONS

Name of Lab: Scientific Crime Detection Laboratory
5500 E. Tudor Road
Anchorage, AK 99507

Date: June 8, 2009

Name: Debra L. Gillis

Job Title: Forensic Scientist III

Discipline(s): Indicate all areas in which you do casework.

Firearm Identification, Toolmark Identification, Muzzle-to-Target Distance Determination, Physical Matching, Serial Number Restoration, and Biological Fluid Screening

Education: List all higher academic institutions attended.

Institution	Major	Degree completed	Date
University of Alaska-Anchorage	Chemistry w/Biochemistry Option	B.S.	1986
University of Alaska-Anchorage	Biological Sciences	B.S.	1986

Other Training: List continuing education, workshops, in-service and other formal training received.

Firearm/Toolmark

AFTE Annual Training Seminars – 2009, 2008, 2007, 2006, 2005; AFTE courses - Silencer Design (2007), Barrel Manufacturing (2008), DCC Marks (2008); Armorer's courses – Kahr Arms (2005), Hi-Point (2006), Glock (2006), Ruger (2009)

08/04–08/08 Gunpowder and Gunshot Residue School, by John Webb (FBI), Spokane, WA (32 hrs)

12/05 - 09/05 NIBIN Acquisition Course by Forensic Technology at Largo, Florida (40 hours).

02/23 - 03/05/04 National Firearm Examiner's Academy, Phase IV, by ATF, Laurel, MD (2 weeks)

11/10 -02/20/04 National Firearm Examiner's Academy, Phase III, by ATF, Anchorage, AK (4 months)

07/28 - 11/07/03 National Firearm Examiner's Academy, Phase II, by ATF, Laurel, Maryland (15 weeks)

03/01 - 07-27/03 National Firearm Examiner's Academy, Phase I, by ATF, Anchorage, AK (4 months)

Trace Evidence

01/14-18/08 Advanced Bloodstain Pattern Analysis, Tom Bevel, Anchorage, AK (40 hrs)

02/03 - 06/03 In-house Blood Screening training (4 months)

11/12/02 DNA Evidence, State of Alaska Scientific Crime Detection Laboratory (4 hrs)

09/23-27/02 Bloodstain Pattern Analysis Workshop, Utah Bureau of Forensic Sciences, Anch, Alaska (40 hrs)

04/02 - 10/02 In-house Sexual Assault training (6 months)

01/29/02 Trace Evidence Collection, State of Alaska-Scientific Crime Detection Laboratory (4 hrs)

12/18/01 Sexual Assault Evidence, State of Alaska-Scientific Crime Detection Laboratory (8 hrs)

Other

07/29-30/08 Courtroom Testimony Techniques, by Ron Smith, Anchorage, AK (16 hrs)

01/10-13/06 Forensic Video Examinations on the dTect System by Dorothy Stout of Ocean Systems in Laurel, Maryland (32 hrs)

Statement of Qualifications (continued): Debra L. Gillis

- 04/28/03 "A Seminar on How to be an Effective Witness in the Courtroom," by Valerie Van Brocklin, Law Enforcement Trainer, Anchorage, AK (8 hours)
- 04/15/03 Arson Evidence by Donald Cuthbert of State of Alaska Fire Marshal, Anch, Alaska (4 hours)
- 01/6-8/03 Forensic Digital Imaging, Imaging Forensics, George Reis, Anchorage, Alaska (24 hrs)
- 11/20/01 Crime Scene Diagramming, Anchorage, AK (4 hrs)
- 11/01-02/01 Managing Property and Evidence in Law Enforcement Agencies, International Association for Property and Evidence, Inc., Anchorage, Alaska (15 hours)
- 10/16/01 Photography, Digital Photography, and Video of Crime Scenes and Physical Evidence, Anchorage, AK (8 hrs)
- 06/15-19/99 USEPA Drinking Water Certification Officer Training, USEPA, Cincinnati, Ohio (40 hrs)

Courtroom Experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

Trace Section: (Sexual assault/Blood cases) - Grand Jury: 3 times, Courtroom testimony: 10 times.

Firearm/Toolmark Section: Grand Jury: 4 times, Courtroom testimony: 6 times.

Professional Affiliations: List any professional organizations of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

Association of Firearm and Toolmark Examiners (AFTE) – Provisional Member – 2005 to present
American Chemical Society – 1985-1990

Employment History: List all scientific or technical positions held, particularly those related to forensic sciences. List current position first. Give a brief summary of principal duties and tenure in each position.

- (1) Job Title: Forensic Scientist III (title reclassification from Criminalist in 2008)
 Employer: State of Alaska Scientific Crime Detection Laboratory
 Principal Duties: Screening evidence for biological fluids (blood/semen), firearm/toolmark examiner
 Tenure: Crim I (04-02 to 06-03), Crim II (06-03 to 06-05) Crim III (06-05 to present)

- (2) Job Title: Laboratory Technician I
 Employer: State of Alaska Scientific Crime Detection Laboratory
 Principal Duties: Evidence Custodian
 Tenure: July 2001 to April 2002

- (3) Job Title: Chemist III
 Employer: State of Alaska Chemistry Laboratory (SCL)
 Principal Duties: Drinking Water (DW) Certification Officer. Audited all in-state certified DW labs. Monitored certified DW labs personnel, equipment, methods, MDLs, proficiency tests (PT), and Quality Assurance Manuals (QAM). Ensured the continued certification of the SCL with the USEPA by scheduling PT samples, reviewing MDLs, and updating SOPs and the QAM. Provided technical assistance to general public, labs, and agencies about the State of Alaska Drinking Water Program.
 Tenure: January 1999 to June 2001

- (4) Job Title: Scientist IV

Employer: Columbia Analytical Services, Anchorage, AK
Principal Duties: Supervise the inorganic department; including metals, wet chemistry, microbiology, and TCLPs. Responsible for workload distribution and tracking, reporting, reviewing data,

Statement of Qualifications (continued): Debra L. Gillis

training, quality control charting, SOPs, personnel reviews, sample dumping, and data analysis. Primary operator of the Graphite Furnace and Mercury by Cold Vapor.

Tenure: November 1993 to December 1998

(5) Job Title: Chemist
Employer: Commercial Testing and Engineering, Anchorage, AK

Principal Duties: Intermediate supervisor of the inorganic department; including metals, wet chemistry, microbiology, oil/grease, and TCLPs. Perform distillations, digestions, colorimetric reactions, and run instrumentation (ICP, Graphite Furnace, and Flame AA).

Tenure: June 1986 to April 1990; August 1991 to December 1992; April 1993 to November 1993

(6) Job Title: Veterinary Technician
Employer: Chester Valley Veterinary Hospital, Anchorage, AK

Principal Duties: Aid Veterinarians in restraining animals for surgical and non-surgical procedures. Aid in surgery with anesthetic, suturing, various surgical instruments, and IV catheters. Prepped patients for surgery, and responsible for post-surgical care. Took and developed x-rays.

Performed dentals. Drew blood and performed chemistry screens and CBCs. Used autoclaves. Prepared surgical packs. Opened Vet office, and checked in drop-off patients. Maintained supplies. Maintained kennel area and exam rooms.

Tenure: December 1990 to April 1993

Other Qualifications:

List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic or other teaching positions you have held, and any other information which you consider relevant to your qualification as a forensic scientist.

Assist when needed, as a secondary, on crime scenes (2001 to present).

Assisted Robert Shem with workshops in A Simplified Protocol for the Examination of Materials that Possess Gunshot Discharge Products, at three AFTE Seminars (2005 - 40 students, 2006 - 20 students, and 2009 - 40 students)

Assisted instructing in the following classes offered by the State Crime Detection Laboratory: Trace Evidence Collection (4 hr class); Sexual Assault Evidence (8 hr class); and Vehicle Processing (8 hr class).

Laboratory Instructor for Chemistry 055 at the University of Alaska, Anchorage during the fall semester of 1992.